10005461-1

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2   **ABSTRACT**

3   Method and apparatus for dynamic instrumentation of an executable application

4   program. The application program includes a plurality of functions, each function

5   having an entry point and an endpoint. When the application is executed, a shared

6   memory segment is created for an instrumentation program and the application

7   program. Upon initial invocation of the original functions in the application program,

8   corresponding substitute functions are created in the shared memory segment, the

9   substitute versions including instrumentation code. Thereafter, the substitute functions

10   are executed in lieu of the original functions in the application program.